

## ABSTRACT

1 A method and system for optimizing a mobile radio network  
2 topology for an N node network where each node has K  
3 connecting links. A base network topology is established  
4 and a cost value is determined for the base network. It  
5 is determined if all possible local transformations on  
6 the base network topology have been performed and if not  
7 a local transformation is performed on the base network  
8 to form a transformed network. A cost is calculated for  
9 the transformed network and the cost is compared with the  
10 cost of a base network. The transformed network is  
11 established as the base network if the cost of the  
12 transformed network is less than the cost of the base  
13 network.